### EYE Plaque Credentialing

### Reference Cases

Please calculate and attach isodose distributions for the single seed and geometric implant described below. Sources should be the model 125I or 103Pd seeds (from the list of models complying with the AAPM prerequisites – see <http://irochouston.mdanderson.org>) that you choose to treat your patients, with source strength specified exact at the beginning of the implant. Do the calculations as you would do them clinically using the TG-43 dosimetry, detailing any assumptions necessary.

**DOSIMETRY TEST CASES**

Please calculate and attach isodose distributions for the two cases described below. Sources are 125I or 103Pd seeds. The distributions should be given for a plane 5 cm on a side. Do the calculations as you would clinically, using the TG-43 125I or 103Pd dosimetry, detailing any assumptions necessary.

Test Case: Single seed, strength 0.5U for 125I (μGy m2 h-1) (use 2.5 U for 103Pd). Please set planning duration time for 72 hours. Calculate in the plane parallel to the seed axis (XY plane). Please submit the 3 views with ruler for magnification and the required isodose lines from 0.2 Gy to 100 Gy (Lines 0.2, 0.5, 1, 5, 10, 50, & 100 Gy are preferred) along with the plan brief report.

Y

X

seed